Section 3-1 Reflection Worksheet Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| 1. For each figure (*preimage*), place the MIRA™ on the dotted line (*reflection line*). Look through the MIRA™ and draw the reflection of the figure (*image*) on the paper. After drawing the reflected figure (*image*), write down your observations. | |
|  | Observations: |
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| 1. **Sally used her MIRA™ to draw the following quadrilateral:**   http://harmon-middle-school.wikispaces.com/file/view/coordinate.JPG/30539153/coordinate.JPG  A  B  C  D  D’  A’  C’  B’ | | 1. On what line did she place her MIRA™? 2. What is the distance from **A** to the y-axis? From **A’** to the y-axis? 3. What is the distance from **C** to the y-axis? From **C’** to the y-axis? 4. When looking at the y-axis and , I notice that the y-axis is a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_   of . (**fill in the blank**) |
| 1. **Then, Sally used her MIRA™ to draw this reflection:** | 1. On what line did she place her MIRA™ to draw this reflection? Draw the reflection line. 2. What is the midpoint of ? 3. What is the distance from the midpoint of to A? What is the distance from the midpoint of to A’? 4. Is y=x the perpendicular bisector of ? How do you know? (HINT: Slope) | |
| 1. **Based on question 2 and question 3, what conclusions can you draw about reflections?** | | |